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- (71) Applicants
 Bayer Aktiengesellschaft,
 509 LeverkusenBayerwerk, Germany,
 Fed. Rep. of Germany
- (72) Inventors Klaus Kunde, Karl Heinz Schündehütte, Peter Wild
- (74) Agents
 Carpmaels & Ransford

- (54) Disazo dyestuffs
- (57) Dyestuffs of the formula

$$(HO_3S)_{\varrho} = N - (HO_3S)_{\varrho} + (HO_3S)_{\varrho$$

in which

R, is H, halogen, alkoxy or acylamino,

R₂ and R₃ are independently H, halogen, alkyl, alkoxy, or acylamino,

Ra is halogen, ORs, SRs or NRsR, wherein

R₅ is H, C₁---C₆-alkyl, aryl, heteroaryl, aralkyl, or cycloalkyl, and

 R_6 and R_7 are independently H, amino, optionally substituted C_1 — C_6 alkyl, aryl, heteroaryl, aralkyl or cycloalkyl, or together may complete a 5- or 6-membered hetero ring optionally containing further hetero atoms, and wherein rings A and B may be optionally substituted and their use for the dyeing of cellulose containing materials in bright yellow shades.

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SPECIFICATION Disazo dyestuffs

The invention relates to new yellow disazo dyestuffs of the general formula I

5 in which

R₁ denotes hydrogen, halogen, alkoxy or acylamino,

 R_2 and R_3 independently of one another denote hydrogen, halogen, alkyl, alkoxy or acylamino and R_4 denotes halogen, OR_5 , SR_5 or NR_6R_7 ,

wherein

- R₅ denotes hydrogen, low-molecular alkyl, aryl, hetaryl, aralkyl or cycloalkyl and R₆ and R₇ independently of one another denote hydrogen, amino, low-molecular alkyl, aryl, hetaryl, aralkyl or cycloalkyl, or together form a 5-membered or 6-membered ring, optionally with the inclusion of one or more hetero-atoms, in particular oxygen and/or nitrogen, it being possible for alkyl, aryl, hetaryl and aralkyl to be in turn substituted.
- alkyl, aryl, hetaryl and aralkyl to be in turn substituted,

 15 and in which
 the rings A and B can optionally be substituted, and to a process for their preparation,

the rings A and B can optionally be substituted, and to a process for their preparation, characterised in that one mol of a cyanuric trihalide, one mol of an aminoazo compound of the general formula II

$$(HO_3S)_2 = N + NH_2$$

$$R_3$$

20 in which R_1 , R_2 and R_3 have the abovementioned meaning one mol of an aminoazo compound of the general formula III

$$H_{\mathbb{Z}}N-\overline{\mathbb{A}}-N=N-\overline{\mathbb{A}}$$

in which

the rings A and B can optionally be substituted, and optionally one mol of a compound of the general formula IV

HR₄ IV

in which

R₄ is other than halogen,

30 are reacted with one another in any desired sequence in the presence of an acid-binding agent, the aminoazo compounds of the general formulae II and III being prepared in a known manner.

Advantageous dyestuffs are those of the general formula V

$$(HO_3S)_{r}$$
 $(HO_3S)_{p}$
 $(SO_3H)_5$
 $(HO_3S)_{p}$
 $(SO_3H)_0$
 $(HO_3S)_{p}$
 $(SO_3H)_0$

in which

 R_1 , R_2 , R_3 and R_4 have the abovementioned meaning and o, p, q, r and s are 0 or 1, but o + p + q + r + s equals 2,

VIII

and in which the rings A and B can optionally be substituted. Particularly advantageous dyestuffs are those of the general formulae I and V in which R₄, o, p, q, r and s have the abovementioned meaning and 5 R, denotes NHCOCH₃ or NHCONH₂ when R₂ and R₃ represent H, or R₂ denotes H, CH₃, OCH₃ or OC₂H₅ when R₁ and R₂ represent H, 10 and in which 10 the rings A and B can optionally be substituted. Very particularly advantageous dyestuffs are those of the general formulae I and V R_1 , R_2 , R_3 , o, p, q, r and s have the abovementioned meaning, R_4 denotes OH, OCH₃, OC₂H₄OCH₃, NH₂, NHC₂H₄OH, N(C₂H₄OH)₂, NC₂H₄OC₂H₄1, NHC₆H₅, 15 15 $N(CH_3)C_6H_5$, $NH(3-C_6H_4SO_3H)$ or $NH(4-C_6H_4SO_3H)$, $N(CH_3)C_2H_4OH$, $N(C_2H_5)C_2H_4OH$, NHCH, CH(CH₃)OH or N(CH₂CH(CH₃)OH)₂ and the rings A and B can optionally be substituted. Interesting dyestuffs are those of the general formulae I and V 20 20 in which R_1 , R_2 , R_3 , o, p, q, r and s have the abovementioned meaning, R₄ denotes NH₂, NHC₂H₄OH, N(C₂H₄OH)₂ or N(CH₃)C₂H₄OH and the rings A and B can optionally be substituted. Dyestuffs of the general formulae I and B which are prepared using compounds of the general 25 25 formula VI in which R_a and R_s independently of one another denote H, CI, OH, OCH₃, OC₂H₅, OCOCH₃, OCOC₆H₅, OSO_2CH_3 , $OSO_2C_6H_5$, CH_3 , CH_2SO_3H , NH_2 , $NHCOCH_3$, $NHCOCH_2OH$, $NHCOC_6H_5$, $NHCONH_2$, 30 30 NHSO₂CH₃, NHSO₂C₆H₅, COOH or SO₃H, and in which the ring B can optionally be substituted, as compounds of the general formula III are preferred. Dyestuffs of the general formulae I and V which are prepared using compounds of the general 35 formula VII VII in which R₁₀ denotes H, CH₃, CI, OCH₃, OC₂H₅ or SO₃H and R_{11} denotes H, CH_3 , CI, OCH_3 , OC_2H_5 , $NHCOCH_3$ or $NHCONH_2$, 40 and in which the ring B can optionally be substituted, as compounds of the general formula III are particularly preferred. Dyestuffs of the general formulae I and V which are prepared using compounds of the general

in which

45 formula VIII

R₁₂ denotes H, CI, CH₃, OCH₃, OC₂H₅ or OH and

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S₁ and S₂ independently of one another denote H, SO₃H, COOH or CH₂SO₃H, and in which the ring A can optionally be substituted, as compounds of the general formula III are very particularly preferred.

Particularly interesting dyestuffs are those of the general formulae I and V which are prepared using compounds of the general formula VIII in which

 R_{12} denotes 4—H, 4—CH₃, 4—OH or 4—OCH₃, when

S₁ represents 3—SO₃H, 3—COOH or 3—CH₂SO₃H and S, represents H, or

R₁₂ denotes 3—H, when S, represents 4—SO₃H, 4—COOH or 4—CH₂SO₃H and

S, represents H,

and in which

the ring A can optionally be substituted, 15 as compounds of the general formula III. Dyestuffs of the general formula IX

IX

in which o, p, q, r and s are 0 or 1, but o + p + q + r + s equals 2, 20 and in which

R₁ denotes NHCOCH₃ or NHCONH₂, when

R₂ and R₃ represent H, or

R2 denotes H, OCH3 or OC2H5, when

R₁ and R₃ represent H, and 25 R₄ denotes NH₂, NHC₂H₄OH, N(C₂H₄OH)₂ or N(CH₃)C₂H₄OH,

R₁₀ denotes H, CH₃, CI, OCH₃, OC₂H₅ or SO₃H,

 R_{11} denotes H, CH_3 , CI, OCH_3 , OC_2H_5 , $NHCOCH_3$ or $NHCONH_2$ and

 R_{12} denotes 4—H, 4—CH₃, 4—OH or 4—OCH₃, when S represents 3—SO₃H, 3—COOH or 3—CH₂SO₃H, or

R₁₂ denotes 3—H, when S represents 4—SO₃H, 4—COOH or 4—CH₂SO₃H,

are of very particular interest.

Examples of aminoazo compounds of the general formula II are those which are obtained by diazotising 2-aminonaphthalenedisulphonic acids, such as, for example, 2-aminonaphthalene-1,5-35 disulphonic acid, 2-aminonaphthalene-3,6-disulphonic acid, 2-aminonaphthalene-3,7-disulphonic acid, 2-aminonaphthalene-4,8-disulphonic acid, 2-aminonaphthalene-5,7-disulphonic acid or 2aminonaphthalene-6,8-disulphonic acid, and coupling the diazotisation products to aminobenzenes which are optionally substituted in the 2-position or in the 3-position, such as, for example, aniline, 2methylaniline, 2-methoxyaniline, 2-ethoxyaniline, 2-chloroaniline, 3-acetylaniline or 3-40 aminophenylurea; the ω -methanesulphonic acids of the abovementioned aminobenzenes can equally well be used as coupling components, the protective group being split off again, by treatment with acids or alkalis, after the coupling.

Examples of aminoazo compounds of the general formula III are those which are obtained by diazotising optionally substituted aminobenzenes, such as, for example, aniline, 2-chloroaniline, 3-45 chloroaniline, 4-chloroaniline, 2-methylaniline, 3-methylaniline, 4-methylaniline, 2-methoxyaniline, 3methoxyaniline, 4-methoxyaniline, 2-ethoxyaniline, 3-ethoxyaniline, 4-ethoxyaniline, 2aminobenzenesulphonic acid, 3-aminobenzenesulphonic acid, 4-aminobenzenesulphonic acid, anthranilic acid, 3-aminobenzoic acid, 4-aminobenzoic acid, 5-amino-2-hydroxybenzoic acid, 5-amino-50

2-methylbenzenesulphonic acid, 3-aminophenylmethanesulphonic acid or 4aminophenylmethanesulphonic acid, and coupling the diazotisation products to optionally substituted aminobenzenes, such as, for example, aniline, 2-methylaniline, 3-methylaniline, 2-methoxyaniline, 3methoxyaniline, 2-ethoxyaniline, 3-ethoxyaniline, 2-methoxy-5-methylaniline, 2-ethoxy-5methylaniline, 5-methoxy-2-methylaniline, 2-aminophenol, 3-aminophenol, 2,5-dimethylaniline, 3,5-

dimethylaniline, 2,5-dimethoxyaniline, 3-acetylaminoaniline, 3-methylsulphonylaminoaniline, 3aminophenylurea, 1,3-diaminobenzene, 3-amino-4-methylbenzenesulphonic acid, 3-amino-4hydroxybenzenesulphonic acid, 3-amino-4-methoxybenzenesulphonic acid or 3-

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aminophenylmethanesulphonic acid; the ω -methanesulphonic acids of the abovementioned aminobenzenes can equally well be used as coupling components, the protective group being split off again, by treatment with acids or alkalis, after the coupling.

Examples of aminoazo compounds of the general formula III are also those which are obtained by diazo tising optionally further substituted 4-nitroaminobenzenes, such as, for example, 4-nitroaniline, 4-nitro-2-methoxyaniline, 4-nitroaniline-2-sulphonic acid or 4-nitro-5-methoxyaniline-2-sulphonic acid, and coupling the diazotisation products to optionally substituted hydroxybenzenes, such as, for example, phenol, salicylic acid, 3-hydroxybenzoic acid, 2-hydroxy-6-methylbenzoic acid, 2-hydroxybenzenesulphonic acid or 3-hydroxybenzenesulphonic acid, and then reducing the nitroazo compound to give the aminoazo compound.

Examples of aminoazo compounds of the general formula III are also those which are obtained on treating other aminoazo compounds of the general formula III with agents with which sulphonic acid radicals can be introduced, such as, for example, sulphuric acid, oleum or sulphur trioxide, an example being 4-amino-3,4'-azobenzenedisulphonic acid.

Examples of compounds of the general formula IV are water, methanol, ethanol, glycol, 2-methoxyethanol, phenol, thiophenol, ammonia, hydrazine, methylamine, ethylamine, dimethylamine, diethylamine, diethylamine, diethanolamine, N-methylethanolamine, N-ethylethanolamine, glycine, N-methylglycine, taurine, N-methyltaurine, aminomethanesulphonic acid, N-methylaminomethanesulphonic acid, aniline, N-methylaniline, 3-aminobenzenesulphonic acid, 4-aminobenzenesulphonic acid, 2-aminonaphthalene-4,8-disulphonic acid, 2-aminopyridine, 2-aminothiazole, benzylamine, pyrrolidine, piperidine, morpholine, 1-amino-2-propanol and bis-(2-hydroxypropyl)-amine.

The reaction between the cyanuric halide, for example cyanuric fluoride, cyanuric chloride or cyanuric bromide, the aminoazo compounds of the general formulae II and III and the compounds of the general formula IV is carried out in three stages in any desired sequence, the first stage being carried out 25 at about 0—10°, the second at about 35—50° and the third at about 80—110°C, and the acid thereby formed being neutralised with alkaline agents, such as, for example, sodium acetate, sodium bicarbonate, sodium carbonate, sodium hydroxide solution, lithium carbonate, lithium hydroxide, potassium carbonate or potassium hydroxide.

Those aminoazo compounds or compounds of the general formula IV which carry groups conferring solubility in water are advantageously reacted first.

The dyestuffs are precipitated from the solution by adding salt and are isolated and dried or isolated by spray-drying. In general, they are obtained in the form of salts, in particular the alkali metal salts, and preferably the sodium salts. The formulae given are those of the free acids.

The new dyestuffs dye cellulose-containing materials in clear yellow colour shades.

In the examples which follow, "parts" denote parts by weight, "percentages" denote percentages by weight and the temperature is given in degrees Centigrade.

EXAMPLE 1

29.5 parts of the aminoazo compound, of the general formula II, obtained from 2aminonaphthalene-4,8-disulphonic acid and aniline are dissolved in 1,000 parts of water, and a solution of 13.5 parts of cyanuric chloride in 100 parts of acetone is added at 0°, the hydrochloric acid liberated being neutralised by adding 46.5 parts of an aqueous 20% strength solution of sodium carbonate. When the first reaction stage has ended, 22.2 parts of the aminoazo compound, of the general formula III, obtained from 3-aminobenzenesulphonic acid and 2-methoxyaniline are dissolved in 1,000 parts of water and the solution is added to the first mixture. The temperature is increased to 40° and the hydrochloric acid liberated is neutralised by adding 46.5 parts of 20% strength sodium carbonate solution. When the second reaction stage has ended, 15.2 parts of diethanolamine are added. The temperature is increased to 90°, and the mixture is then stirred at this temperature for a further 3 hours. The dyestuff is precipitated by adding 450 parts of potassium chloride and is isolated. After drying, an orange-coloured powder, an aqueous solution of which dyes cellulose-containing materials in greenish-tinged yellow shades, is obtained.

EXAMPLES 2 to 4

Very similar dyestuffs are obtained if, instead of the diethanolamine used in Example 1, 18 parts of an aqueous 25% strength solution of ammonia or 8.9 parts of ethanolamine or N-methylethanolamine 55 are used.

EXAMPLE 5

18.6 parts of the aminoazo compound, of the general formula III, which is obtained by diazotising 4-nitroaniline, coupling the diazotisation product to salicylic acid and then reducing the coupling product are dissolved in 1,000 parts of water and the solution is reacted with a suspension of 13.5 parts of cyanuric chloride in 100 parts of water at 0°, the hydrochloric acid liberated being neutralised by adding 46.5 parts of an aqueous 20% strength solution of sodium carbonate. When the first reaction stage has ended, 29.5 parts of the aminoazo compound, of the general formula II, which is obtained

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Example	Compound of the general formula III, obtained from	Compound of the general formula IV
66	4-aminophenylmethanesulphonic acid and 3-acetylaminoaniline	ammonia
67	3-aminophenylmethanesulphonic acid and 3-acetylaminoaniline	diethanolamine
68	,,	ethanolamine
69	,,	ammonia
70	4-aminobenzenesulphonic acid and 3-aminophenylurea	diethanolamine
71		ethanolamine
72	,,	ammonia
73	3-aminobenzenesulphonic acid and 3-aminophenylurea	diethanolamine
74		ethanolamine
75		ammonia
76	4-aminobenzoic acid and 3-aminophenylurea	diethanolamine
77	•	ethanolamine
78		ammonia
· 79	3-aminobenzoic acid and 3-aminophenylurea	diethanolamine
80	,,	ethanolamine
81	,,	ammonia
82	5-amino-2-methylbenzenesulphonic acid and 3-aminophenylurea	diethanolamine
83	**	ethanolamine
84		ammonia
85	4-aminophenylmethanesulphonic acid and 3-aminophenylurea	diethanolamine
86	••	ethanolamine
87		ammonia
. 88	3-aminophenylmethanesulphonic acid and 3-aminophenylurea	diethanolamine
89	n	ethanolamine
90	•	ammonia
91	4-nitroaniline and salicylic acid	diethanolamine
92	. **	ethanolamine
93	19	ammonia

Example	Compound of the general formula III, obtained from	Compound of the general formula IV
38	3-aminobenzoic acid and 2-methoxyaniline	ethanolamine
39	11,	ammonia
40	5-amino-2-methylbenzenesulphonic acid and 2-methoxyaniline	diethanolamine
41		ethanolamine
42 .	••	ammonia
43	4-aminophenylmethanesulphonic acid and 2-methoxyaniline	diethanolamine
44	,,	ethanolamine
45	••	ammonia
46	3-aminophenylmethanesulphonic acid and 2-methoxyaniline	diethanolamine
47	11	ethanolamine
48	••	ammonia
49	4-aminobenzenesulphonic acid and 3-acetylaminoaniline	diethanolamine
50	**	ethanolamine
51	•	ammonia
52	3-aminobenzenesulphonic acid and 3-acetylaminoaniline	diethanolamine
53	**	ethanolamine
54	· ·	ammonia
55	4-aminobenzoic acid and 3-acetylaminoaniline	diethanolamine
56	11	ethanolamine
57 ·	,,	ammonia
58	3-aminobenzoic acid and 3-acetylaminoaniline	diethanolamine
59	**	ethanolamine
60	25	ammonia
61	5-amino-2-methylbenzenesulphonic acid and 3-acetylaminoaniline	diethanolamine
62	•	ethanolamine
63	,,	ammonia
64	4-aminophenylmethanesulphonic acid and 3-acetylaminoaniline	diethanolamine
65 [.]	,,	ethanolamine

Example	Compound of the general formula III, obtained from	Compound of the general formula IV
` 7 ·	4-aminobenzenesulphonic acid and aniline	diethanolamine
8	•	ethanolamine
9	•	ammonia
10	3-aminobenzeneaulphonic acid and aniline	diethanolamine
11	•	ethanolamine
12	. The second of	ammonia
13	4-aminobenzoic acid and aniline	diethanolamine
14	•	ethanolamine
15	•	ammonia
16	3-aminobenzoic acid and aniline	diethanolamine
17	•	ethanolamine
18	,	ammonia
´ 19	5-amino-2-methylbenzenesulphonic acid and aniline	diethanolamine
20	••	ethanolamine
21	•	ammonia
22	4-aminophenylmethanesulphonic acid and aniline	diethanolamine
23	••	ethanolamine
24	.,	ammonia
25	3-aminophenylmethanesulphonic acid and aniline	diethanolamine
26	,,	ethanolamine
27	,,	ammonia
28	4-aminobenzenesulphonic acid and 2-methoxyaniline	diethanolamine
29	**	ethanolamine
30	,,	ammonia
31	3-aminobenzenesulphonic acid and 2-methoxyaniline	diethanolamine
32	**	ethanolamin e
33	,,	ammonia
34	4-aminobenzoic acid and 2-methoxyaniline	diethanolamine
35		ethanolamine
36	n	ammonia
37	3-aminobenzoic acid and 2-methoxyaniline	diethanolamine

from 2-aminonaphthalene-4,8-disulphonic acid and aniline are dissolved in 1,000 parts of water and the solution is added to the first mixture. The temperature is increased to 40° and the subsequent procedure is as in Example 1. An orange-coloured powder, an aqueous solution of which dyes cellulose-containing materials in greenish-tinged yellow shades, is obtained.

5 EXAMPLE 6

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Very similar dyestuffs are obtained if, instead of the diethanolamine used in Example 5, 18 parts of an aqueous 25% strength solution of ammonia, 8.9 parts of ethanolamine or 10.9 parts of N-methylethanolamine are used.

EXAMPLES 7 to 96

If the procedure of the processes indicated in Examples 1—6 is followed and the product obtained 10 from 2-aminonaphthalene-4,8-disulphonic acid and aniline is used as the compound of the general formula II and the compounds indicated in the table below are used as the compounds of the general formulae III and IV, yellow dyestuffs for cellulose-containing materials are likewise obtained:

Example	Compound of the general formula III, obtained from	Compound of the general formula IV
94	4-aminoazobenzene and 2 mols of SO ₃ (4-aminoazobenzene-2,4'-disulphonic acid)	diethanolamine
95		ethanolamine
96	11	ammonia

Similarly good dyestuffs are obtained using N-methylethanolamine as compound IV. Similarly good dyestuffs are obtained if, instead of the compound of the general formula II used in Examples 1—96, those obtained from 2-aminonaphthalene-4,8-disulphonic acid and 2-methoxyaniline or 3-acetaminoaniline and 3-aminophenylurea are used.

CLAIMS

1. A dyestuff of the general formula

(1)

in which

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R, denotes a hydrogen or halogen atom or an alkoxy or acylamino group,

R₂ and R₃ independently of each other denote a hydrogen or halogen atom or an alkyl, alkoxy, or 10 acylamino group and

R₄ denotes a halogen atom or an OR₅, SR₅ or NR₆R₇ group

in which

 R_s denotes a hydrogen atom, C_1 to C_6 alkyl, aryl, hetaryl, aralkyl or cycloalkyl and

R_s and R₇ independently of each other denote a hydrogen atom or an amino, C₁ to C₅ alkyl, aryl, 115 hetaryl, aralkyl or cycloalkyl group, or together form a 5-membered or 6-membered ring, optionally with the inclusion of one or more hetero-atoms, and the alkyl, aryl, hetaryl and aralkyl groups are optionally substituted,

and in which

the rings A and B are optionally substituted.

2. A dyestuff according to claim 1 in which Re and R7 together form a 5-membered or 6-

membered ring with the inclusion of one or more oxygen and/or nitrogen atoms.

3. A dyestuff according to claim of the general formula

$$(HO_{3}S)_{r} + (HO_{3}S)_{r} + (HO_{3}S)_{r$$

in which

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 R_1 , R_2 , R_3 and R_4 have the same meanings as in claim 1 and o, p, q, r and s are 0 or 1, but o + p + q + r + s equals 2,

and in which the rings A and B are optionally substituted.

4. A dyestuff according to any of the foregoing claims in which R₄ has the same meaning as in 30 30 claim,

o, p, q, r and s have the same meaning as in claim 3 and

R₁ denotes NHCOCH₃ or NHCONH₂ when

R₂ and R₃ denote hydrogen atoms, or

R, denotes a hydrogen atom or a methyl, methoxy, or ethoxy group when 35

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R, and R, denote hydrogen atoms, and in which the rings A and B are optionally substituted. 5. A dyestuff according to any of the foregoing claims in which R₁, R₂ and R₃ have the same meanings as in claim 1 or 4, 5 o, p, q, r and s have the same meaning as in claim 3 and H_4 denotes OH, OCH₃, OC₂H₄OCH₃, NH₂, NHC₂H₄OH, N(C₂H₄OH)₂, N(CH₃)C₂H₄OH, N(C₂H₅)C₂H₄OH, $NHCH_2CH(CH_3)OH$, $N(CH_2CH(CH_3)OH_2$, $NC_2H_4OC_2H_4$, NHC_6H_5 , $N(CH_3)C_6H_5$, $NH(3-C_6H_4SO_3H)$ or NH(4---C₆H₄SO₃H) 10 and in which the rings A and B are optionally substituted. 6. A dyestuff according to claim 5, R_1 , R_2 and R_3 have the same meaning as in claim 1 or 4, o, p, q, r and s have the same meaning as in claim 3, and 15 R₄ denotes NH₂, NHC₂H₄OH, N(C₂H₄OH)₂ or N(CH₃)C₂H₄OH, and in which the rings A and B are optionally substituted. 7. A dyestuff according to any of the foregoing claims in which the moiety consisting of rings A 20 and B and the invervening azo bridge is a radical of the general formula

(Va)

in which R_8 and R_9 independently of each other denote a hydrogen or chlorine atom or an OH, OCH $_3$, OC $_2$ H $_5$, $OCOCH_3$, $OCOC_6H_5$, OSO_2CH_3 , $OSO_2C_6H_5$, CH_2SO_3H , NH_2 , $NHCOCH_3$, $NHCOCH_2OH$,

NHCOC, H₅, NHCONH₂, NHSO₂CH₃, NHSO₂C₆H₅ COOH or SO₃H group, and in which

the ring B is optionally substituted.

8. A dyestuff according to claim 7 in which the radical (Va) is of the general formula

$$\begin{array}{c} R_{10} \\ \hline \\ R_{11} \end{array}$$
 (Vb)

R₁₀ denotes H, CH₃, CI, OCH₃, OC₂H₅ or SO₃H and

R₁₁ denotes H, CH₃, CI, OCH₃, OC₂H₅, NHCOCH₃ or NHCONH₂,

and in which

the ring B is optionally substituted.

9. A dyestuff according to any of the foregoing claims in which the moiety consisting of rings A 35 and B and the intervening azo bridge is a radical of the general formula

$$\underbrace{A}_{N=N-1}^{R_{12}}S_{1}$$
(Vc)

in which

R₁₂ denotes a hydrogen or chlorine atom or a methyl, methoxy, ethoxy or hydroxyl group S₁ and S₂ independently of each other denote a hydrogen atom or a SO₃H, COOH or CH₂SO₃H 40 group.

and in which

the ring A is optionally substituted.

10. A dyestuff according to claim 9 in which

R₁₂ denotes 4—H, 4—CH₃, 4—OH or 4—OCH₃, when 45 S, denotes 3—SO₃H, 3—COOH or 3—CH₂SO₃H and

S2 denotes a hydrogen atom,

 R_{12}^{2} denotes 3—H, when S_{1} denotes 4— $SO_{3}H$, 4—COOH or 4— $CH_{2}SO_{3}H$ and

S₂ denotes a hydrogen atom.

5 and in which

the ring A can optionally be substituted.

11. A dyestuff according to claim 1 of the general formula

in which

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o, p, q, r and s are 0 or 1, but o + p + q + r + s equals 2, and in which

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 R_1 , R_2 and R_3 have the same meanings as in claim 4,

R₄ has the same meaning as in claim 6,

R₁₀ and R₁₁ have the same meanings as in claim 8, and

R₁₂ and S have the same meanings as in claim 10. 12. A dyestuff according to claim 1 as hereinbefore specifically identified.

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13. A process for the production of a dyestuff as claimed in claim 1 in which, per mol a cyanuric trihalide, one mol of an aminoazo compound of the general formula

$$(HO_3S)_2 = N - N - NH_2$$

in which 20

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 R_1 , R_2 and R_3 have the same meanings as in claim 1, one mol of an aminoazo compound of the general formula

$$H_2N - \langle \bigcirc \rangle - N = N - \langle \bigcirc \rangle$$

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the rings A and B are optionally substituted, if R4 is other than a halogen atom, one mol of a compound of the general formula

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HR₄

in which

R4 has the same meaning as in claim 1, other than a halogen atom, are reacted with one another in any desired sequence in the presence of an acid-binding agent.

14. A process for the production of a dyestuff as claimed in claim 1 when carried out substantially

as described in any one of the Examples. 15. A dyestuff as claimed in claim 1 when produced by the process of claim 14.

16. A process for dyeing a cellulose-containing material comprising treating the material with a dyestuff as claimed in any of claims 1 to 12 and 15.

17. A cellulose-containing material when dyed by the process of claim 6.

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